

REMARKS

Present Status of Claims

- Original claims **1-60** are pending.
- Claims **27-33, 39, 40** and **42-60** have been withdrawn from consideration as being drawn to non-elected embodiments.
- Claims **1-20** have been allowed.
- Claims **21-26, 34, 35** and **38** have been rejected.
- Claims **36, 37** and **41** are objected to.

Summary of Amendments to the Claims

In this paper:

- Claims **16, 17, 36, 37** and **41** have been amended.
- Claims **42-60** have been cancelled.

Allowed Claims

Applicants gratefully acknowledge the allowance of claims **1-20**.

Allowable Claims

Claims **36, 37** and **41** were objected to as being dependent upon a rejected base claim.

In response, applicants have rewritten claims **36, 37** and **41** in independent form, including all of the elements and limitations recited in the rejected base claim, plus any intervening claims.

Accordingly, the objections to claims **36, 37** and **41** have been overcome, and amended claims **36, 37** and **41** are now in condition for allowance.

Claims **16** and **17** were amended to include the “degrees” Centigrade symbol.

35 USC § 103 Rejections

Claim 21

The Office rejected independent claim 21 under 35 USC § 103(a) as being unpatentable over Sano et al (5,952,714) in view of Young et al. (5,729,038).

Issue #1

The Office asserts that Sano teaches “a package with a window for housing a microelectronic device comprising a monolithic body 50, comprising a electrically insulating multilayered material (e.g., layer member 50a and layer member 50b).” Applicants respectfully **traverse**.

It is true that Sano uses the phrases “*multilayered structure*” and “*multilayerd or vertical structure*” to describe the physical appearance of the package shown in Fig. 8 (See Sano Col. 7, line 39 and Col. 8, lines 36-37). However, a multilayered **structure** is not the same as a multilayered **material**.

Sano uses the phrase “*multilayered structure*” to indicate that frame 50 in Fig. 8, comprises multiple levels or stepped interior ledges. However, the material used in frame 50 of Fig. 8 **is not a multilayered material**, as it is defined in Applicant’s specification and drawings.

Sano teaches that frame 50 is made of a monolithic, epoxy resin mixed with inorganic filler that is injected into a mold at high temperature (See Sano Col. 7 line 66 to Col. 8, line 4). Additionally, the fact that the cross-hatch lines in Sano’s Fig. 8 extend completely across the cross-section of frame 50, from top to bottom, indicates that a single, monolithic material is used; rather than a multilayered material (such as laminated LTCC, HTCC, or printed wiring board material, as is taught in the present invention). Also, the use of sub-indicia “50a” and “50b”, also teaches that a single material is used for frame 50 in Fig. 8.

In summary, nowhere in Sano is there a teaching or suggestion of using a **multilayered material** for the package, as is recited in applicant’s claim 21.

Issue #2

The Office asserts that Young et al. teaches that the window 420/620 is bonded directly to the body 422 without having a separate layer of adhesive material disposed in-between the window and body. Applicants respectfully **traverse**.

Nowhere in Young et al. is there a teaching or suggestion that window 420/620 may be bonded **directly** to the body 422 **without having a separate layer of adhesive material disposed in-between the window and body**. The fact that Figs. 4 and 6 in

Young et al. show an encased window geometry is **unrelated** to the issue of whether or not a separate layer of adhesive material is disposed in-between the window and body.

Since neither *Sano et al.* nor *Young et al.* (either alone or in combination) teach or fairly suggest all of the limitations of applicant's claim **21**, then the Office has failed to make a *prima facie* case of unpatentability of claim **21**.

Accordingly, claim **21** is now in condition for allowance.

Claims 22-26, 34 and 38

Claims **22-26, 34 and 38** depend from claim **21**. As presented above, claim **21** is now in condition for allowance. Therefore, claims **22-26, 34 and 38** are also now in condition for allowance.

Withdrawn Claims

Claims 27-33, 39 and 40

The Office withdrew claims **27-33, 39 and 40** as being directed to a non-elected embodiment.

Applicants submit that claim **21** is a **generic** claim that covers the species described in dependent claims **27-33, 39 and 40**. Applicants request that claims **27-33, 39 and 40** be **rejoined** and examined.

Since claim **21** is now in condition for allowance and is a generic claim, then the dependent species claims **27-33, 39 and 40** are also now in condition for allowance.

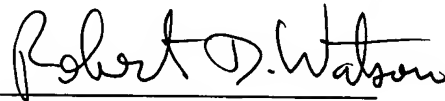
Conclusion

Applicants have responded to each and every objection and rejection, and urge that original and amended claims **1-41** as presented are now in condition for allowance. No new claims have been added, however, three original dependent claims were converted to independent claims.

The office is authorized to charge $3 \times \$84 = \$ 252$ to **Deposit Account No. 19-0131** for three converted independent claims.

Applicants request expeditious processing to issuance.

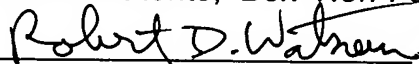
Respectfully submitted,



Robert D. Watson
Agent for Applicants
Reg. No. 45,604
Ph: (505) 845-3139
Fax: (505) 844-1418
e-mail: rdwatso@sandia.gov
Sandia National Laboratories
P.O. Box 5800 MS-0161
Albuquerque, NM 87185-0161

Certificate of Mailing under 37 CFR 1.10

I hereby certify that this correspondence was deposited with the U.S. Postal Service on 3/18/03 (date) in an envelope addressed to the Assistant Commissioner for Patents, Box Non-Fee Amendment, Washington, D.C. 20231



Robert D. Watson